VOLUME CONTENTS

Number 1

M. Rahman	1	A Design Method of Predicting Second Order Wave Diffraction Caused by Large Offshore Structures
A. G. Abul-Azm and A. N. Williams	19	Interference Effects Between Flexible Cylinders in Waves
P. C. Liu	39	Assessing Wind Wave Spectrum Representations in a Shallow Lake
M. M. F. Yuen and F. P. Chau	51	Wave Loading on Axisymmetric Bodies Using Axisymmetric Hybrid Integral Equation Method
Technical Note *M. Rahman*	71	Approximate Wave Force Analysis on Rectangular Caissons
Technical Note *R. J. Seymour and D. Castel*	79	Sealevel Changes Associated with Hurricane "Gloria"
Technical Note *A. Cardo and G. Trincas*	83	A Multiscale Analysis of Nonlinear Rolling
New Patents	i	

Number 2

S. Aranuvachapun	89	Parameters of JONSWAP Spectral Model for Surface Gravity Waves—I. Monte Carlo Simulation Study
S. Aranuvachapun	101	Parameters of JONSWAP Spectral Model for Surface Gravity Waves—II. Predictability from Real Data
K. F. Lambrakos, J. C. Chao, H. Beckmann and H. R. Brannon	117	Wake Model of Hydrodynamic Forces on Pipelines
Technical Note *V. R. Neralla*	137	A Nomogram Method for Predicting the Movement of Oil Slicks

Technical Note

E. Le Guerch 145 The Deep Towing of Underwater Fish Behaviour Patterns During Half-Turn Manoeuvres

News and Notices 163

New Patents i

Number 3

J. D. Wang 165 Hurricane Effects on Surface Gulf Stream Currents

Cheong Hin-Fatt, N. Jothi Shankar and K. Subbiah 181 Wave Forces on Submarine Pipelines Near a Plane Boundary

A. Kareem, P. C. Lu, T. D. Finnigan and Shin-Lin V. Liu 201 Aerodynamic Loads on a Typical Tension Leg Platform

A. G. Abul-Azm, A. N. Williams and S. T. Mau 233 Influence of Structural Flexibility and Wave Interference on Dynamic Behavior of Idealized Offshore Platform

Number 4

J. J. Murray, B. P. Wilkie and D. B. Muggeridge 255 An Experimental and Analytical Study of the Effects of Wave Grouping on the Slowly Varying Drift Oscillation of a Floating Rectangular Barge

M. Salih Kirkgöz and Yalçin Mengi 275 Design of a Caisson Plate Under Wave Impact

P. A. A. Laura, R. H. Gutierrez, L. Ercoli, J. C. Utjes and R. Carnicer 285 Free Vibrations of Rectangular Plates Elastically Restrained Against Rotation with Circular or Square Free Openings

M. A. Srokosz and P. G. Challenor 295 Joint Distributions of Wave Height and Period: A Critical Comparison

R. Skjong and H. O. Madsen 313 Practical Stochastic Fatigue Analysis of Offshore Platforms

M. Greenhow and Li Yanbao	325	Added Masses for Circular Cylinders Near or Penetrating Fluid Boundaries—Review, Extension and Application to Water-Entry, -Exit and Slamming
Chih Wu	349	A Performance Bound for Real OTEC Heat Engines
Books Received	355	
News and Notices	357	
New Patents	i	

Number 5

S. Haver	359	On the Joint Distribution of Heights and Periods of Sea Waves
P. O. Yttervoll and K. J. Eidsvik	377	Dynamic Estimation of Hydrodynamic Damping
R. S. Langley	389	A Statistical Analysis of Non-Linear Random Waves
A. T. Dengler, Jr and P. Wilde	409	Turbidity Currents on Steep Slopes: Application of an Avalanche-Type Numeric Model for Ocean Thermal Energy Conversion Design
Technical Note		
J. A. Antonopoulos	435	The Use and Effect of a Simplified Wave Pressure Model on a Breakwater's Design Width
Books Received	449	
News and Notices	451	
New Patents	i	

Number 6

R. B. Olsen	453	A Random Walk Model for Simulating Simultaneous Currents at Several Depths
J. F. Lee and J. W. Leonard	469	A Time-Dependent Radiation Condition for Transient Wave–Structure Interactions
B. J. Gernon and J. Y. K. Lou	489	Dynamic Response of a Tanker Moored to an Articulated Loading Platform
F. Milinazzo, M. Wilkie and S. A. Latchman	513	An Efficient Algorithm for Simulating the Dynamics of Towed Cable Systems

Technical Note

D. V. Bambill, P. A. A. Laura, E. Romanelli and C. A. Rossit	527	Forced Vibrations of a Beam Elastically Restrained Against Rotation at the Ends in the Case of a Concentrated Load

Volume Contents and Author Index i